

## Introduction

Thank you for selecting Disco II. Disco II is a four-channel DMX laser which can be controlled via a standard DMX controller. It is a lightweight, mini intelligent fixture and is an ideal product for discos, small clubs, exhibitions and any place that need visionary effect. Disco-II provides 50 preset patterns and three operating modes. For safe operation, read this manual before powering or installing the fixture, follow the safety precautions listed below, and observe all warnings printed in this manual and on the fixture.

## Safety Precautions

- Do not spill liquids in to or on to your unit. If this ever happens, disconnect the main power immediately. Do not connect this unit to any dimmer pack.
- Always disconnect from main power before making any type of connection.
- Be sure to locate this unit in a place with adequate ventilation at least 15 cm from a wall, and mount this unit in safe and stable matter.
- To prevent fire or shock hazard, do not expose this unit to a high temperature or high humidity area. Please unplug unit when not in use.
- Always keep combustible materials away from the fixture.
- This unit is intended for indoor use. Use of this unit outdoors voids all warranties.
- Always refer service to a qualified technician. Never look directly into laser beam.
- Occasional breaks are necessary to prevent breakdowns.
- **Caution - Use of controls or adjustments or performance of procedures other than as specified herein may result in hazardous radiation exposure!**

## Set Up

**Unpacking** Disco II comes with: 1 hanging bracket, 2 clamp levers, 2 washers, 1 adapter and 1 user guide. Unpack carefully and be sure that no damage has occurred during shipping. If there is anything missing or appear to be damaged please contact your dealer.

**Power Connection** Be sure the source voltage in your area matches the required voltage for your Disco II before plugging your unit in. Incorrect voltage selection will detrimentally affect the operation of this product.

**DMX Cable Connection** Disco II is a four-channel DMX fixture that can be operated with universal DMX controller. This unit and DMX controller require a standard 3-pin XLR connector for data input and data output.

**Installation/Mounting** Disco II should be properly mounted by using a suitable hanging clamp and safety cable. Use in a well-ventilated area. Be sure no ventilation slots are blocked.

## Cleaning

Use a soft cloth and normal glass cleaner to clean the outside casing and the hexagonal reflection mirror. Cleaning frequency depends on the environment in which the fixture operates. Be sure to dry all parts before plugging the unit back in.

## Specifications

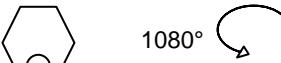
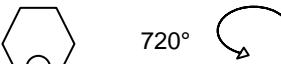
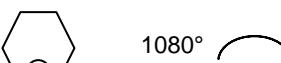
Product Name	Disco II				
Model No.	AL16-5R/ 30R/ 50R/ 100R/ 200R			AL16-05G/ 20G/ 30G	
Laser Diode	4.9/ 30/ 50/ 100/ 200mW			4.9/ 20/ 30mW	
Laser Color	Red			Green	
Model No.	5R5G	20R10G	50R20G	100R30G	200R50G
Laser Diode	4.9mW x 2	20mW + 10mW	50mW + 20mW	100mW + 30mW	200mW + 50mW
Laser Color	Red, Green and Yellow				
Net Weight	4.5Kgs				
Power	UL Adapter (Input 120V 60Hz & Output DC 12V) or CE Adapter (Input 220-240V 50Hz & Output DC 12V)				
Classification	4.9~20mW: 3R/ 30~200mW: 3B				
Size (mm)	L300 x W290 x H307				
Housing	Metal				
Beam Divergence	< 1.5 mrad				
Operating Temperature	18~25°C				

## Operating Modes (Cont.)

DMX Signal Levels

Channel 1		Channel 2	
Range 0-255	Patterns Selection	Range 0-255	Colors and Lines Selection
221-255	Automatically change all the patterns every 10 seconds	233-255	Automatically change all the colors and lines every 5 seconds
204-220	Sound Active Modes	209-232	Automatically change all the colors and lines every 3 seconds
200-203	Pattern50	196-208	Red + Green + Yellow, line2
:	:	183-195	Red + Green + Yellow, line1
:	:	170-182	Red + Green + Yellow, dotted line
:	:	157-169	Green + Yellow, line2
:	:	144-156	Red + Yellow, line2
:	:	131-143	Red + Green, line2
12-15	Pattern3	27-39	Yellow, line
8-11	Pattern2	14-26	Green, line
4-7	Pattern1	1-13	Red, line
0-3	OFF	0	OFF

## Operating Modes (Cont.)

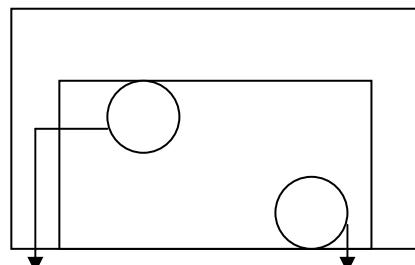
Channel 3		Channel 4	
◎ Channel 4 is functional only when the value of channel 3 is between 0-200			
Range 0-255	Mirror Position and Movement Selection	Range 0-255	Mirror Rotation Selection
228-255	Sound Active	255	
216-227	Counter Clockwise rotation		
213-215	Stop		
201-212	Clockwise rotation		
0-200	360° position changing		
			
			
			
			
0-55	Not Used		

## Trouble Shooting

- If there is no light from the unit, please check the main power supply and fuse.
- If unit does not respond to DMX, please check the DMX cables are connected properly and are wired correctly.
- If unit does not response to the music please check the sound-activation adjustment.
- If problems cannot be solved please contact your dealer for service
- You can adjust the position of green and red light by follow steps to make the best yellow light effect

Step1: Set the DIP Switch 12 to ON, others to OFF. (Adjust Mode)

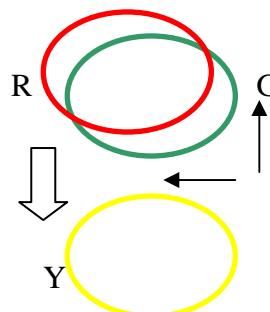
Step2: Open the cover at bottom. (Caution! Before you open the cover please project light on to the wall. Never look into beam directly)



Knob1: Control the green circle light horizontally.

Knob2: Control the green circle light vertically.

Step3: Control these 2 knobs to overlap the 2 circles



## Operating Modes

### 1. Stand-Alone Operation (Auto, Sound Active Mode)

#### Auto mode

- The unit runs built-in program to change the laser effects automatically. Set DIP switch pin 10 to ON, other pins to OFF to run Auto mode

#### Sound Active mode

- This unit has built-in program that will react to sound and music under Sound Active mode. Set all DIP switch pins to OFF to run Sound Active mode. Please adjust "Sensitivity Adjustment Knob" to fine-tune the optimum level of sound reaction.

### 2. Master-Slave Operation (Auto, Sound Active Mode)

This mode allows user to link up to 32 units to run the Master-Slave operation. In the Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling unit. Daisy chain your units via the standard XLR microphone cables in the following configuration: 'Out' from the first unit to 'In' on the second, 'Out' from the second to 'In' on the third and so on.

#### Auto mode

- To set the master: Set DIP switch pin 10 and 11 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

#### Sound Active mode

- To set the master: Set DIP switch pin 11 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

### 3. DMX Operation

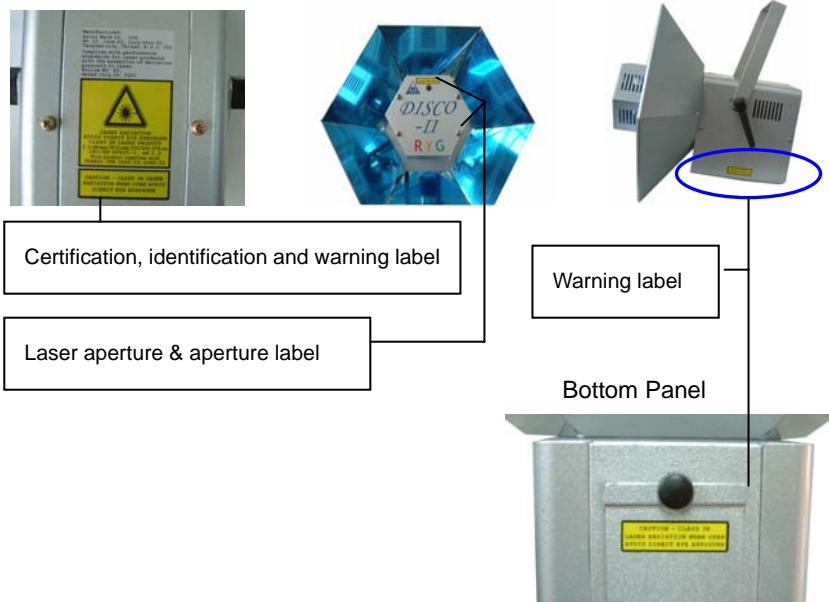
DMX operation gives the users freedom to create their own programs tailored to their own individual needs. To run this unit in DMX mode, connect the unit to any standard DMX controller via XLR connectors. Please consult DMX controller manual to determine address.

#### Function Selection Chart

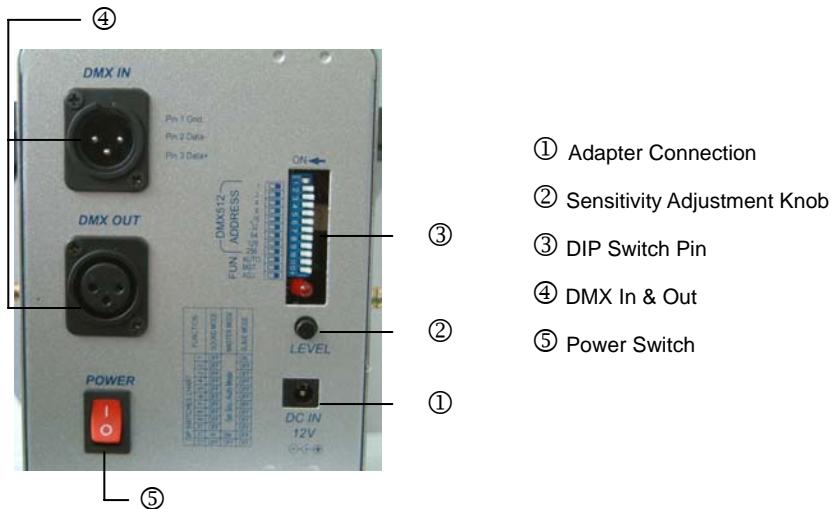
DIP SWITCHES CHART												FUNCTION
1	2	3	4	5	6	7	8	9	10	11	12	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	X	OFF	SOUND MODE
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	X	OFF	AUTO MODE
SET SOUND / AUTO MODE												MASTER
ON	OFF	SLAVE										
SET ADDRESS												DMX MODE
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	TEST MODE

## Safety Label Position

Top Panel      Front Panel      Left and Right Side Panel



## Control Panel Introduction



# Disco Laser II

## AL16 Series User Manual



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